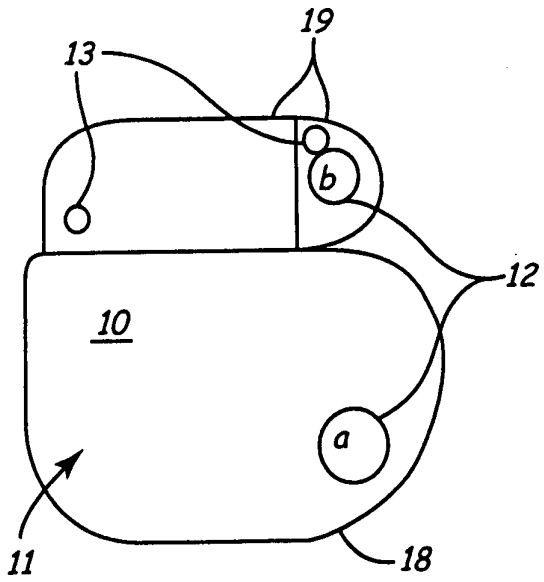


FIG. 1
PRIOR ART

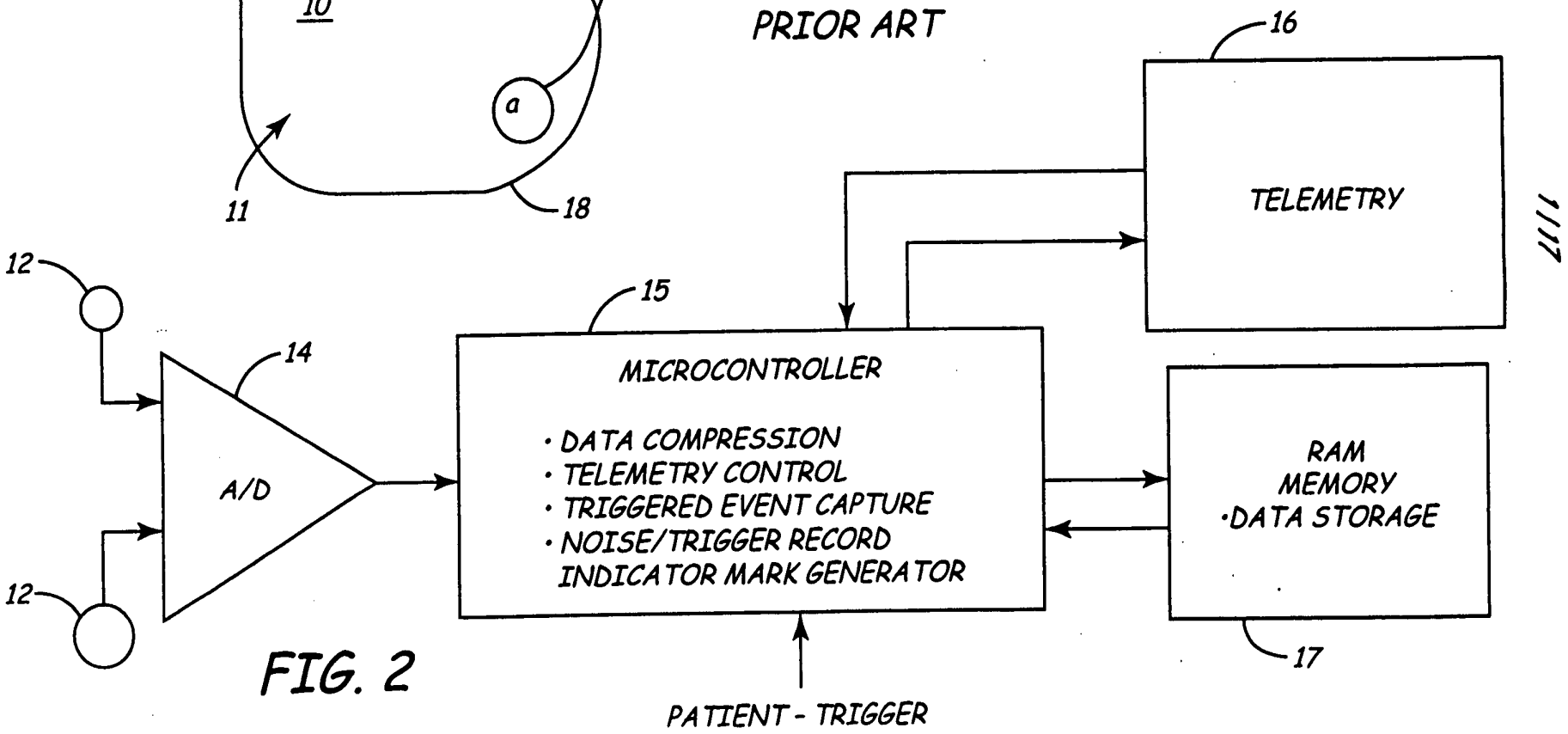


FIG. 2

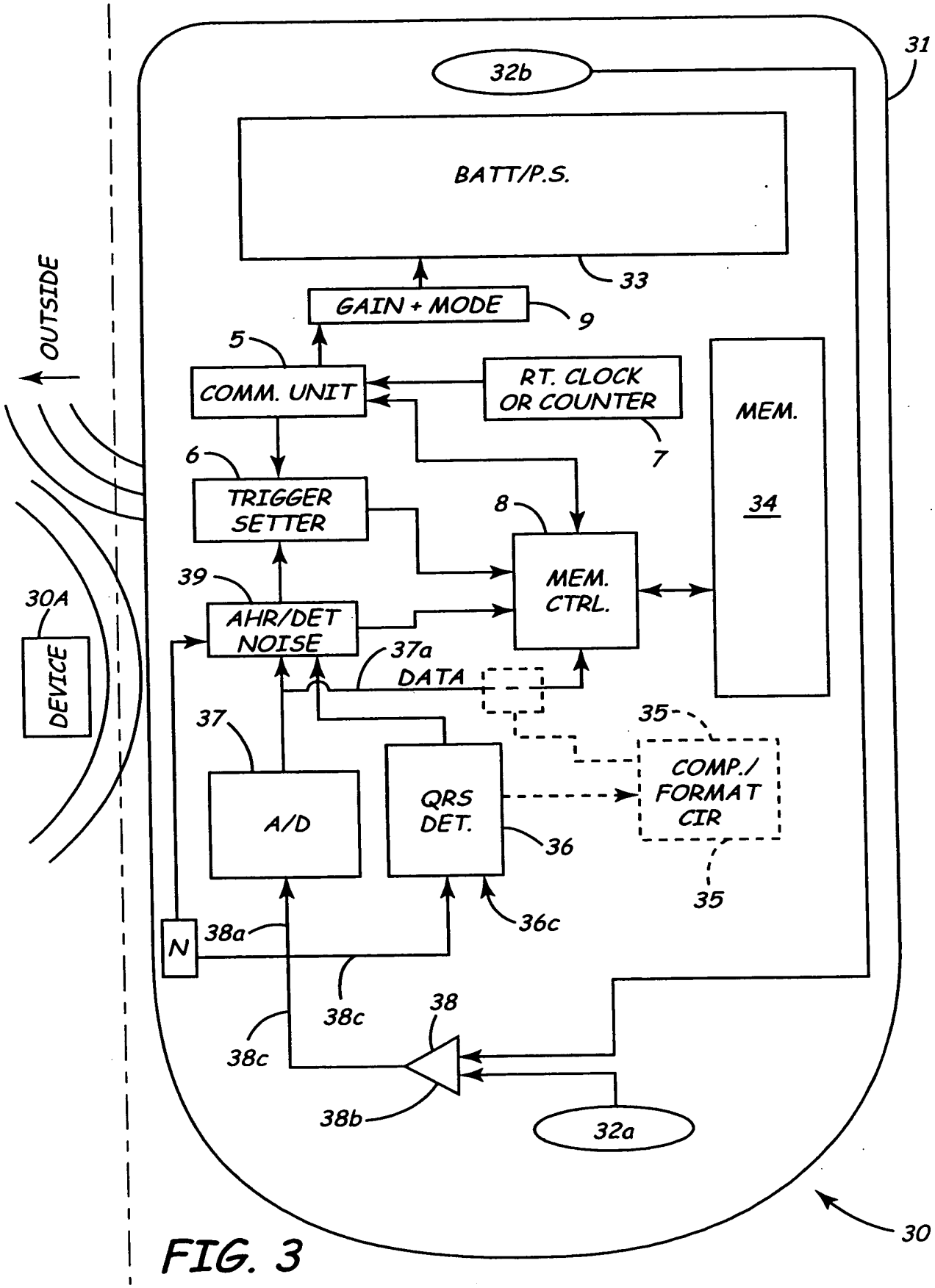


FIG. 3

09756521.101001

FOOTOT-T2355650

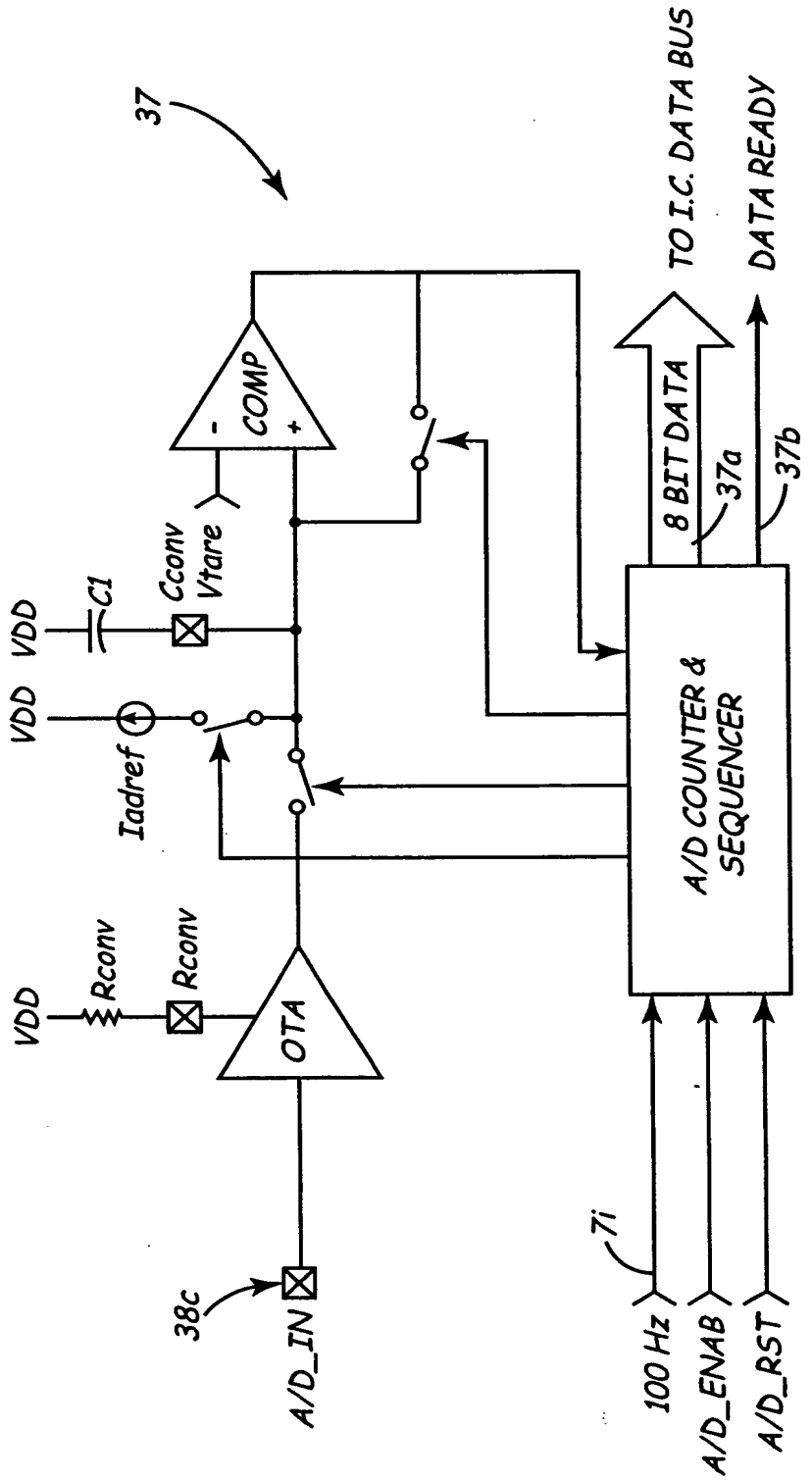


FIG. 3A

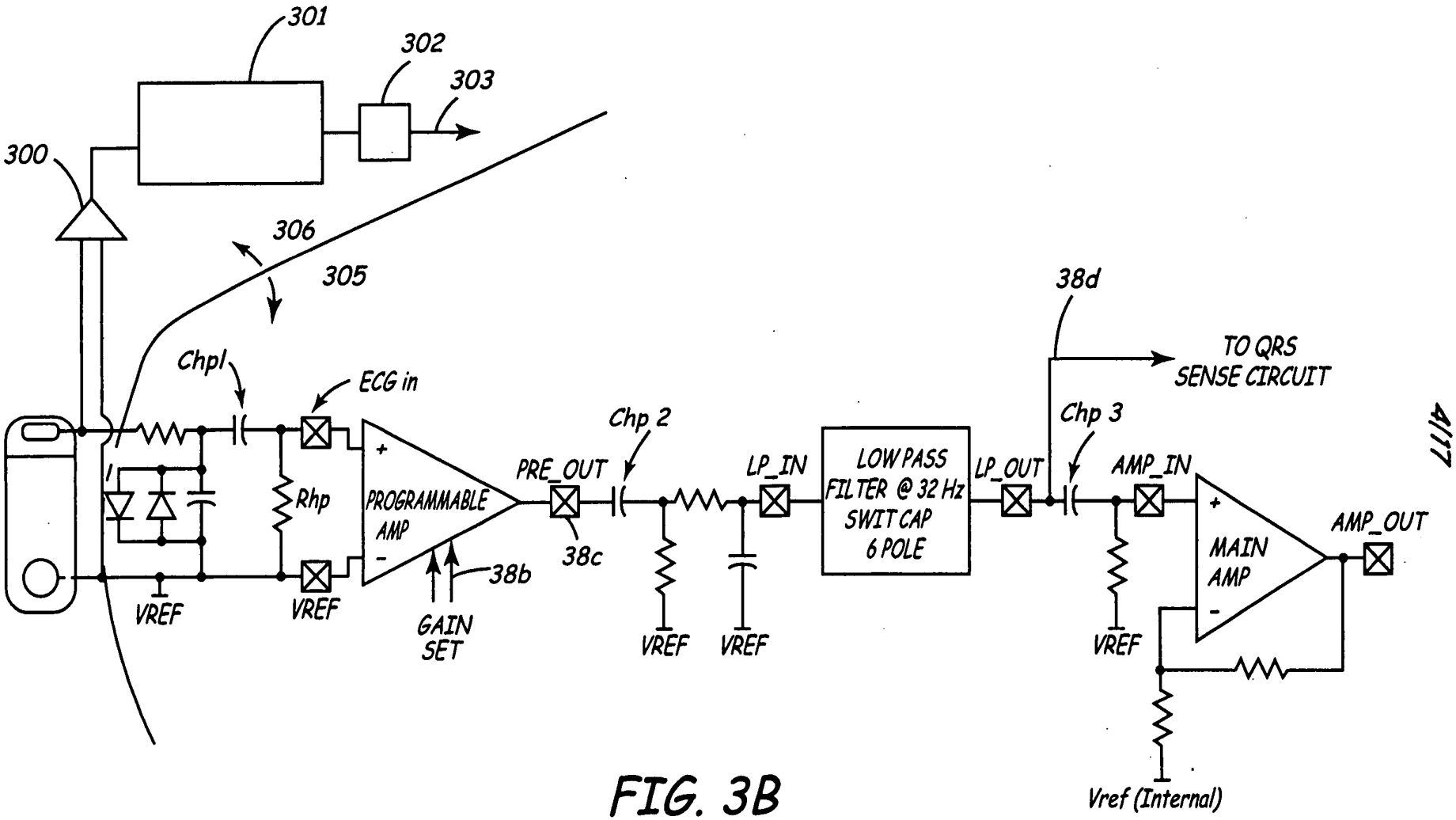

301
302
303
300
306
305
Chpl
ECG in
38d
TO QRS
SENSE CIRCUIT
Chp 2
Chp 3
I
Rhp
PROGRAMMABLE
AMP
PRE_OUT
LP_IN
LOW PASS
FILTER @ 32 Hz
SWIT CAP
6 POLE
LP_OUT
AMP_IN
AMP_OUT
MAIN
AMP
VREF
VREF
VREF
VREF
VREF
GAIN
SET
38b
38c
Vref (Internal)
4/17

FIG. 3B

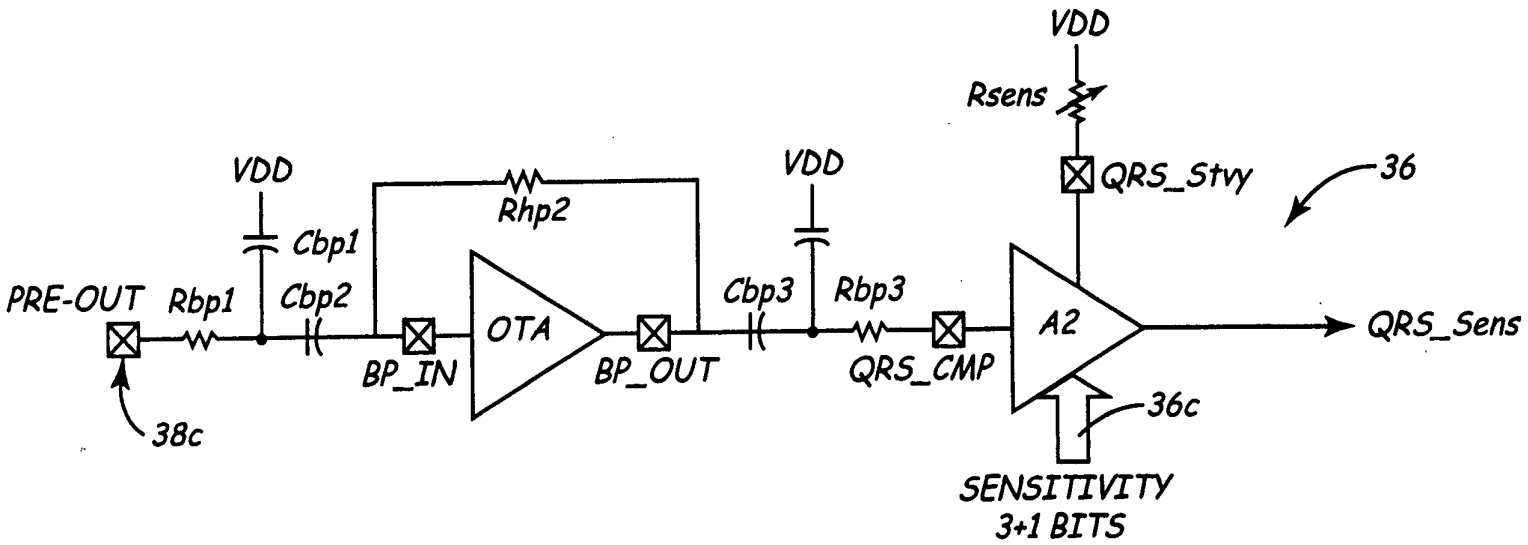

VDD
Rsens
QRS_Stvy
36
VDD
Rhp2
VDD
Cbp1
Cbp3
Rbp3
PRE-OUT
Rbp1
Cbp2
OTA
A2
QRS_Sens
BP_IN
BP_OUT
QRS_CMP
36c
38c
SENSITIVITY
3+1 BITS

FIG. 3C

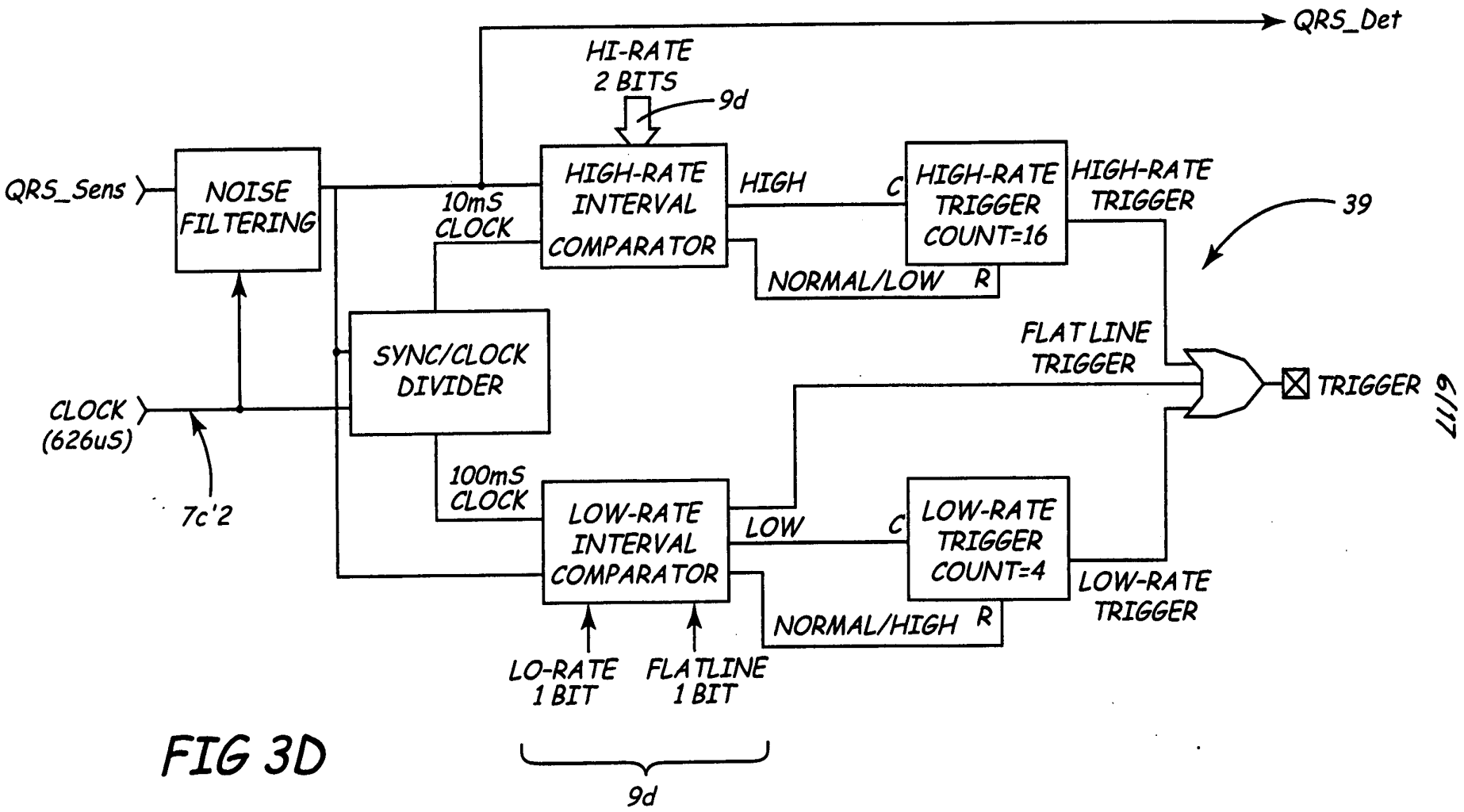

QRS_Det
HI-RATE
2 BITS
9d
QRS_Sens
NOISE
FILTERING
10mS
CLOCK
HIGH-RATE
INTERVAL
COMPARATOR
HIGH
C
HIGH-RATE
TRIGGER
COUNT=16
HIGH-RATE
TRIGGER
39
NORMAL/LOW
R
SYNC/CLOCK
DIVIDER
FLAT LINE
TRIGGER
TRIGGER
CLOCK
(626uS)
7c'2
100mS
CLOCK
LOW-RATE
INTERVAL
COMPARATOR
LOW
C
LOW-RATE
TRIGGER
COUNT=4
LOW-RATE
TRIGGER
NORMAL/HIGH
R
LO-RATE
1 BIT
FLATLINE
1 BIT
9d

FIG 3D

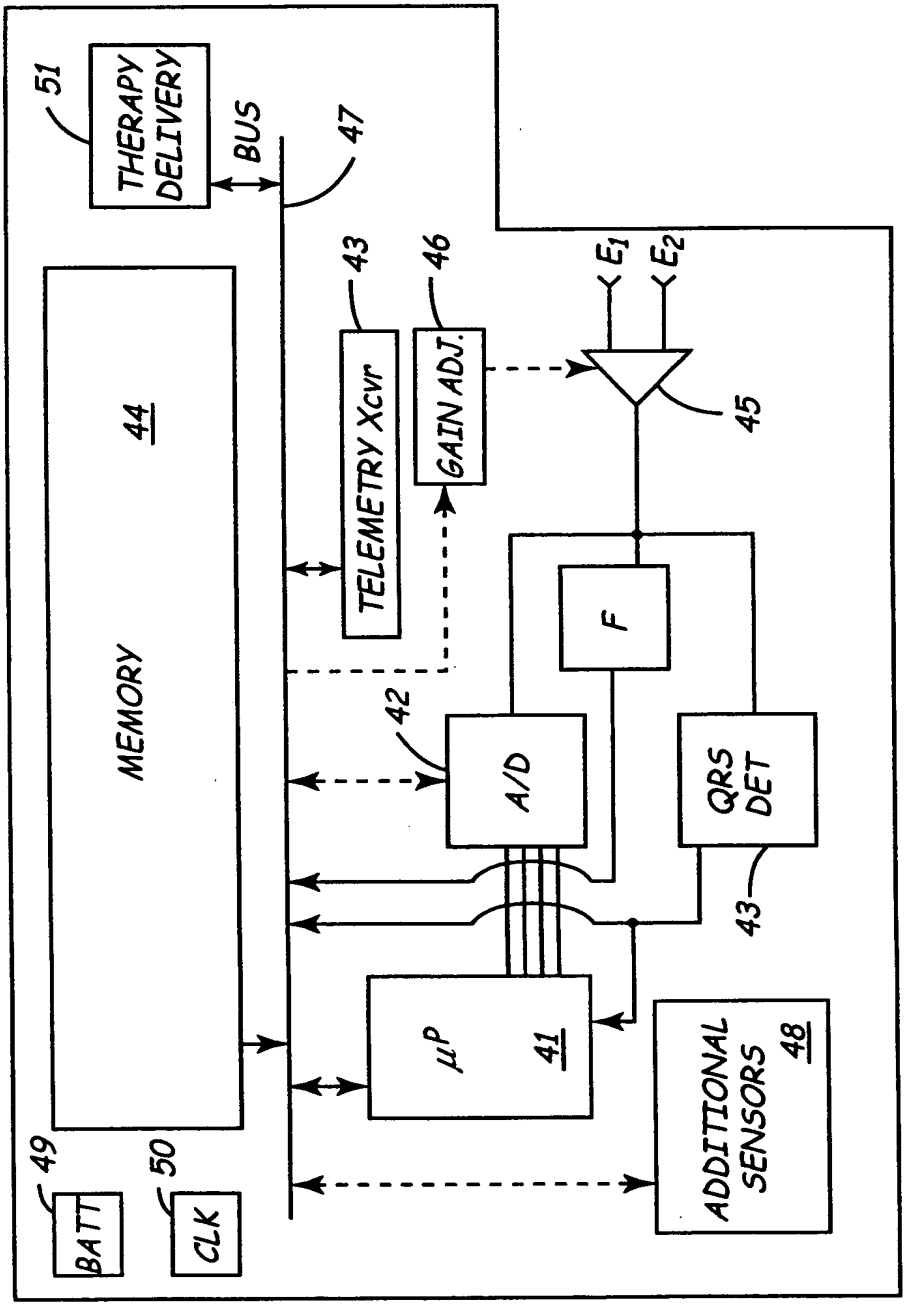

THERAPY DELIVERY
51
BUS
47
MEMORY
44
TELEMETRY Xcvr
43
GAIN ADJ.
46
E_1
E_2
45
F
A/D
42
QRS DET
43
μP
41
ADDITIONAL SENSORS
48
BATT
49
CLK
50
40

FIG. 4

T0070T-129576D

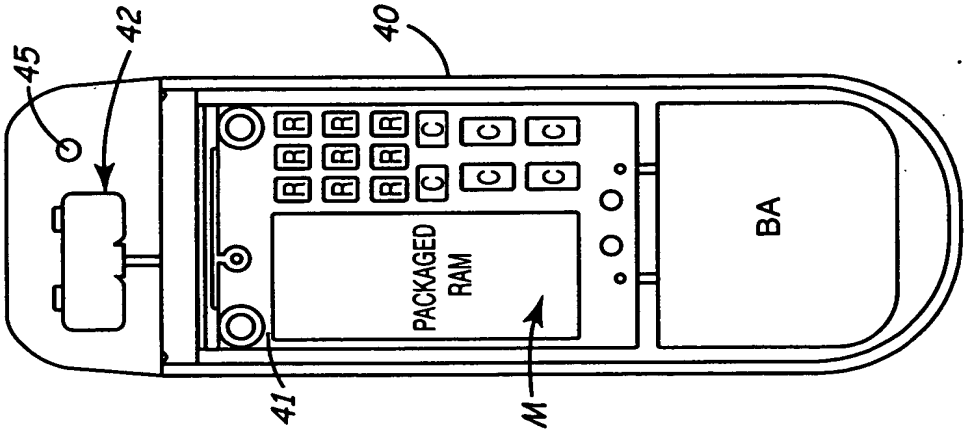


FIG. 4C

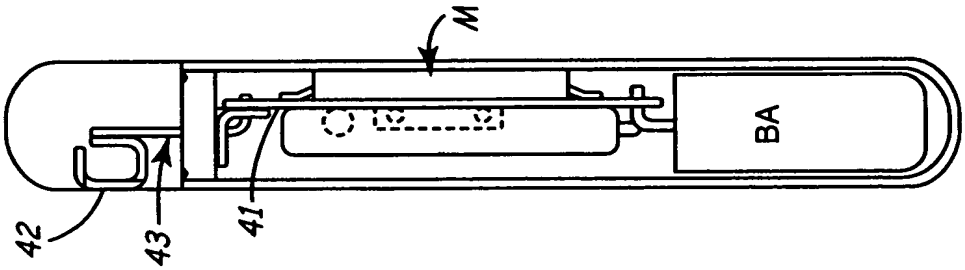


FIG. 4B

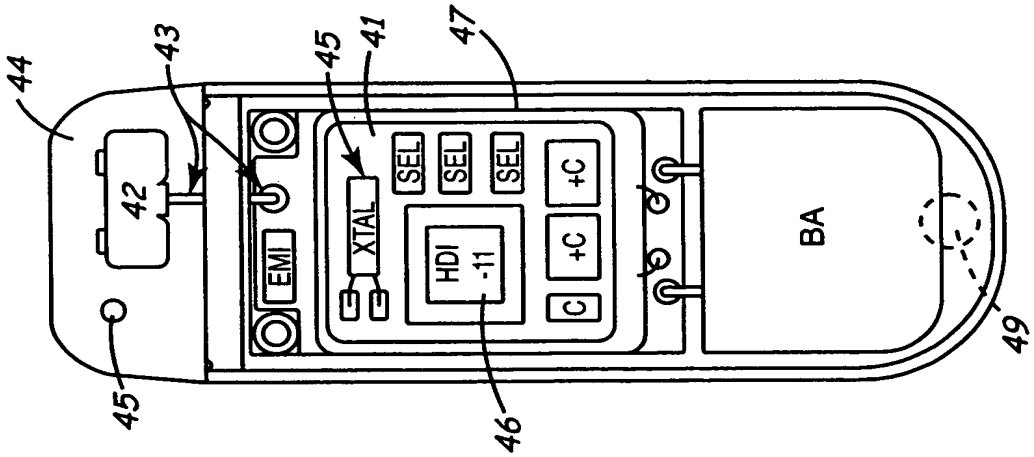


FIG. 4A

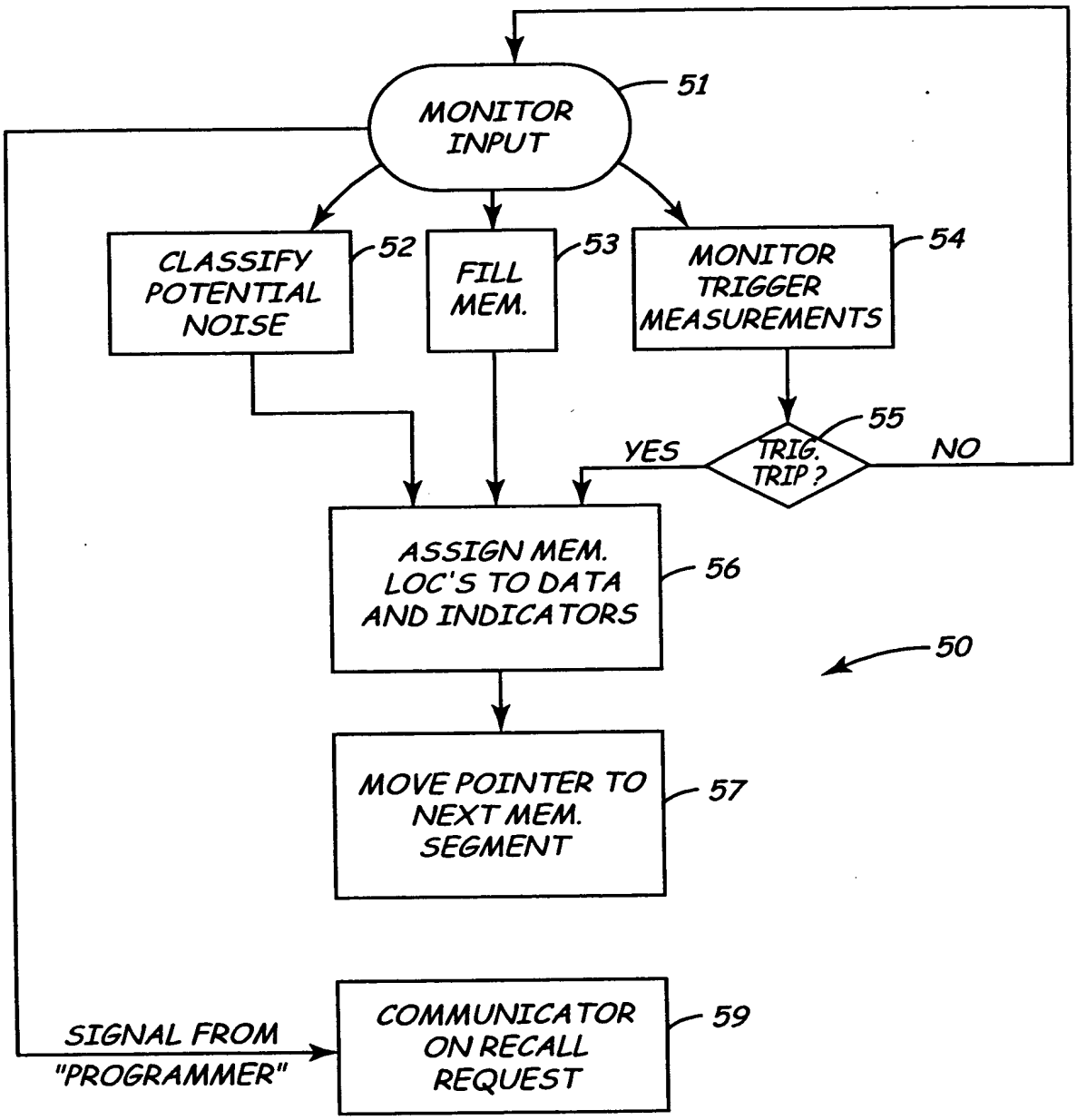


FIG. 5

09/527,960 - 10/10/01

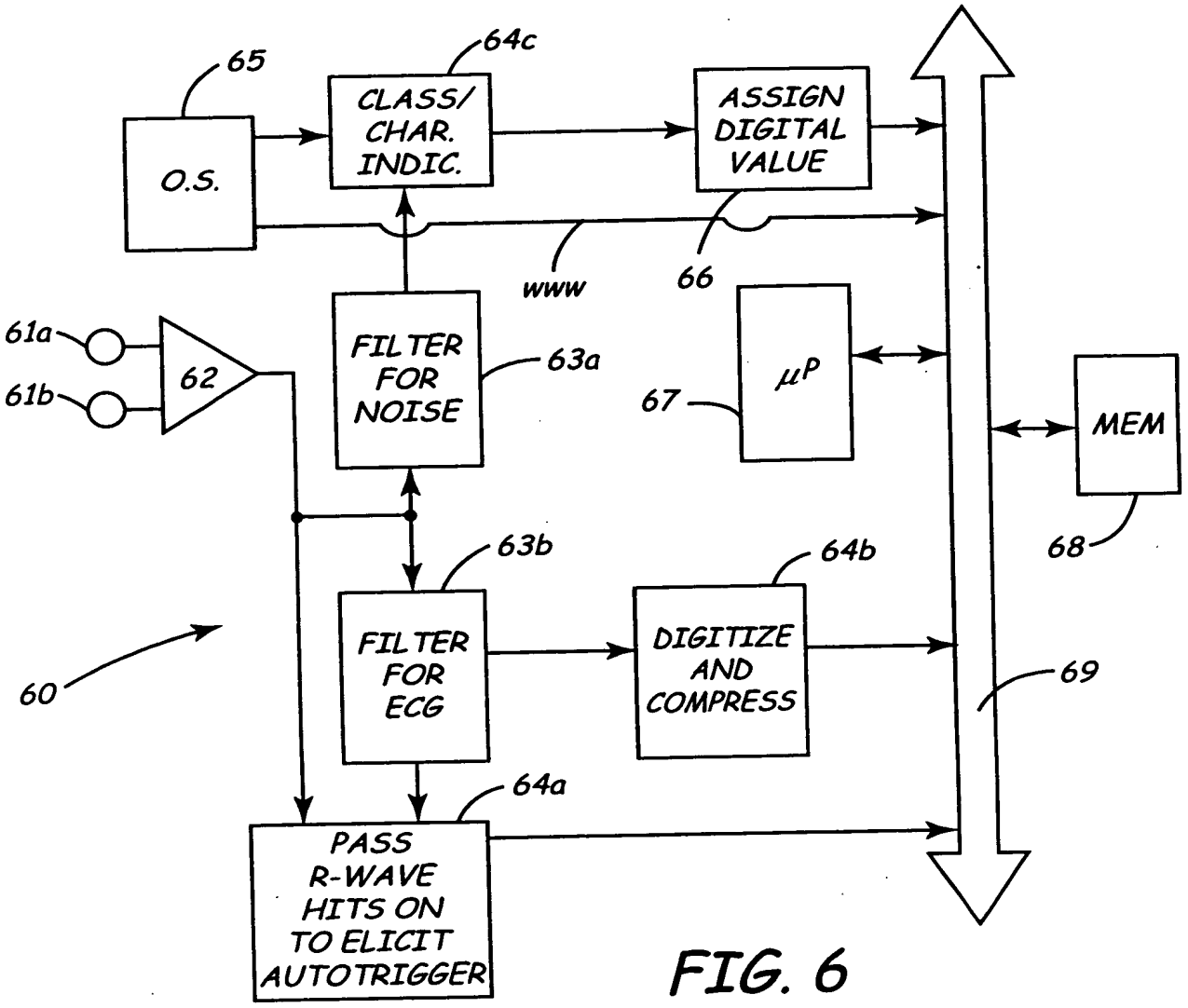


FIG. 6

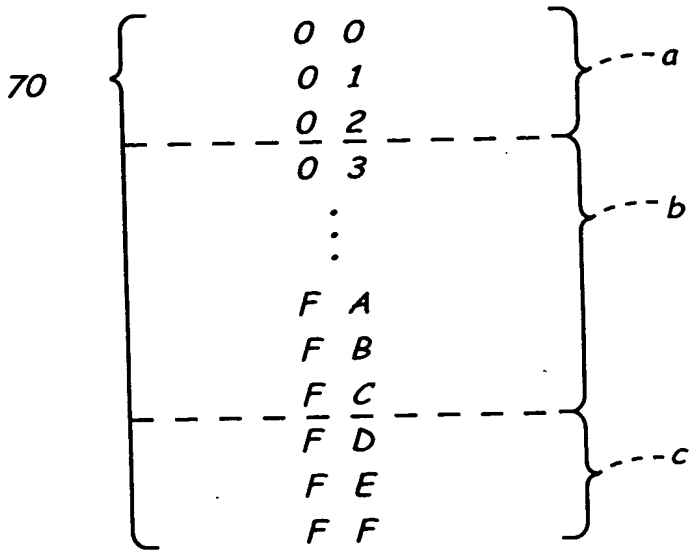


FIG. 7

10010101 11001010

REVEAL PLUS MODEL 9526

08:45 06/01/1999
PROGRAMMER 9790 9809E01
(C) MEDTRONIC, INC. 1999

SUMMARY GRAPH

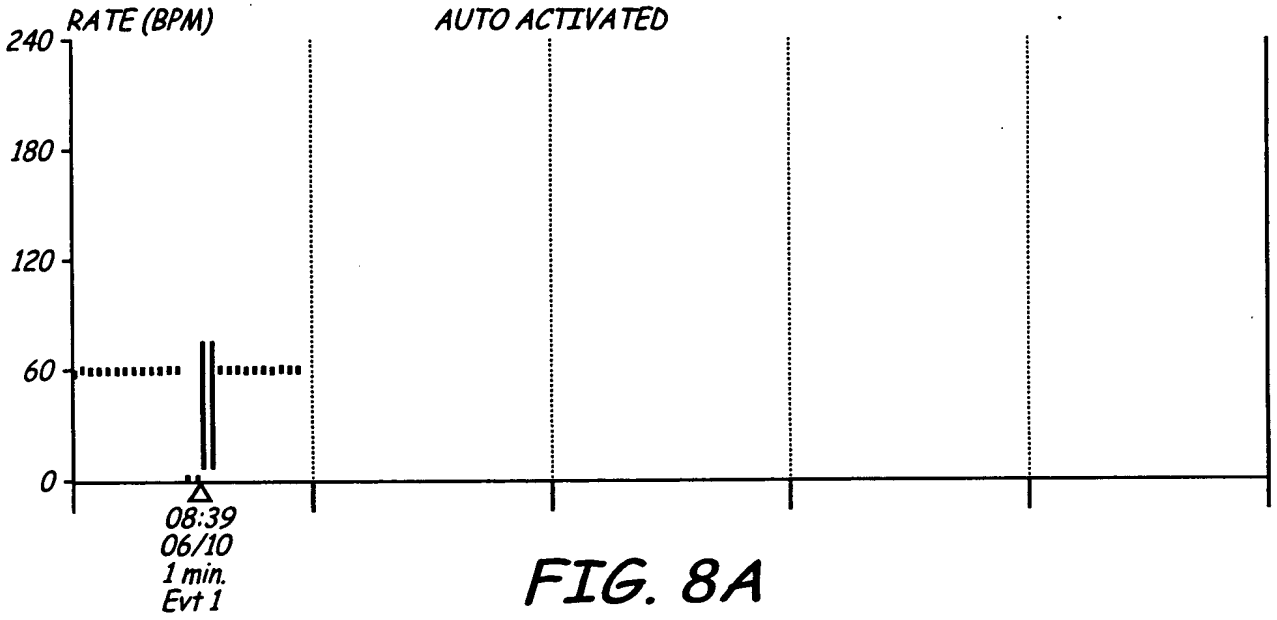


FIG. 8A

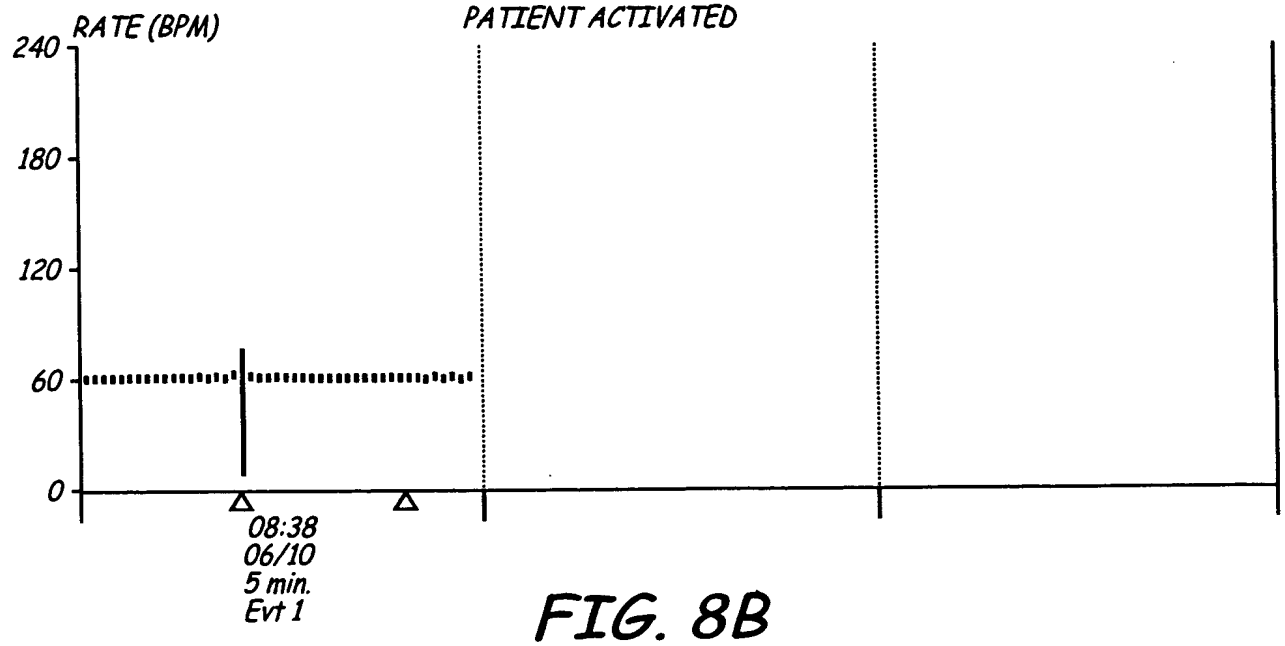


FIG. 8B

Δ=ACTIVATION POINT

FOOTPRINT: 2695/660

REVEAL PLUS MODEL 9526
GAIN: x2 (+/-0.8 mV)
STORAGE MODE: 3 PATIENT, 5 AUTO EVENTS, 21 MIN.
PATIENT EVENT 1 OF 1 RECORDED 06/10/1999
12.5 mm/sec, 18.1 mm/mV

08:45 06/01/1999
PROGRAMMER 9790 9809E01
(C) MEDTRONIC, INC. 1999
PAGE 2 OF 3
Δ=ACTIVATION POINT

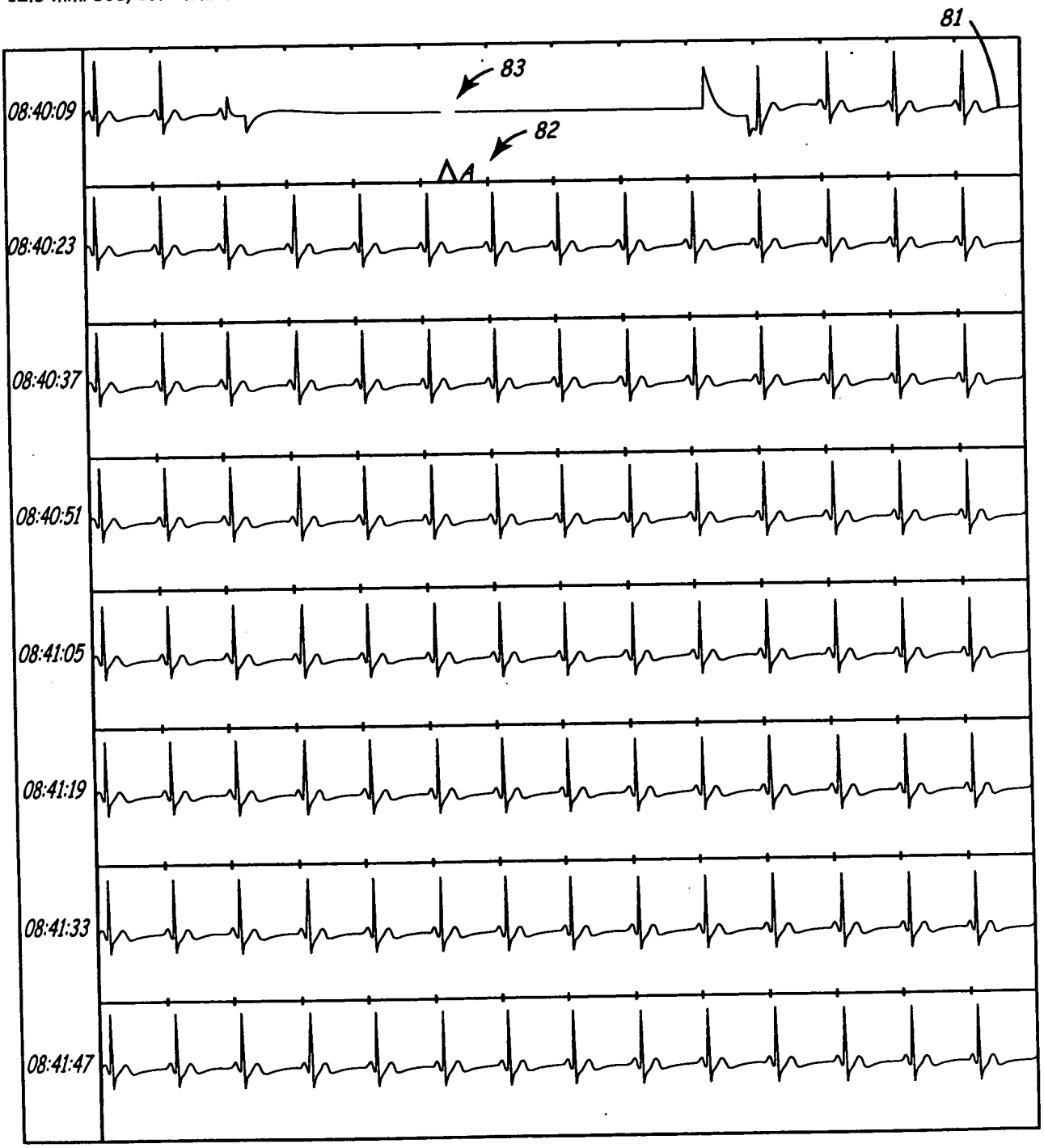
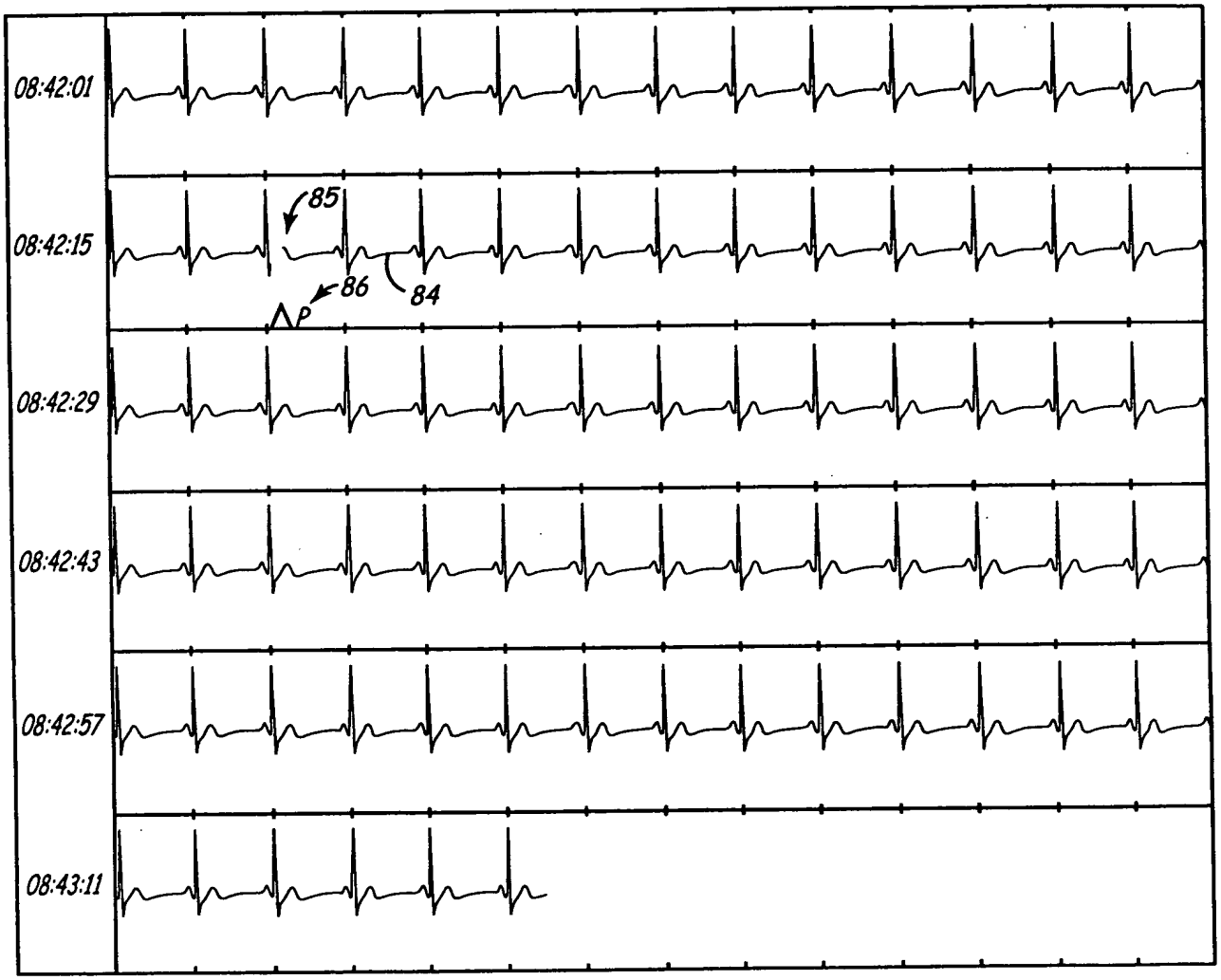


FIG. 9A

09/551,701

REVEAL PLUS MODEL 9526
GAIN: x2 (+/-0.8 mV)
STORAGE MODE: 3 PATIENT, 5 AUTO EVENTS, 21 MIN.
PATIENT EVENT 1 OF 1 RECORDED 06/10/1999
12.5 mm/sec, 18.1 mm/mV

08:45 06/01/1999
PROGRAMMER 9790 9809E01
(C) MEDTRONIC, INC. 1999
PAGE 3 OF 3
Δ=ACTIVATION POINT



09956214.10104

FIG. 9B

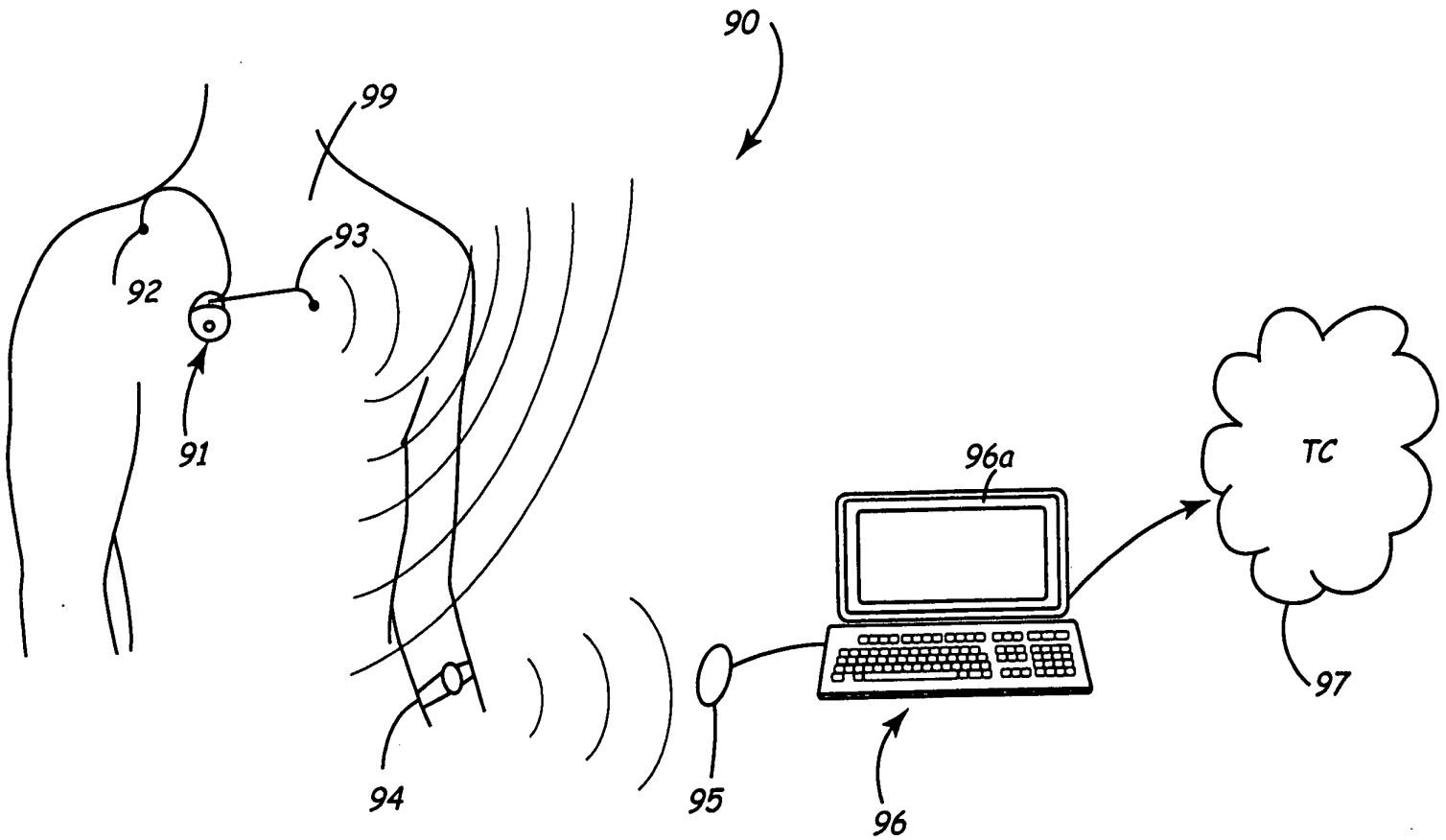


FIG. 10

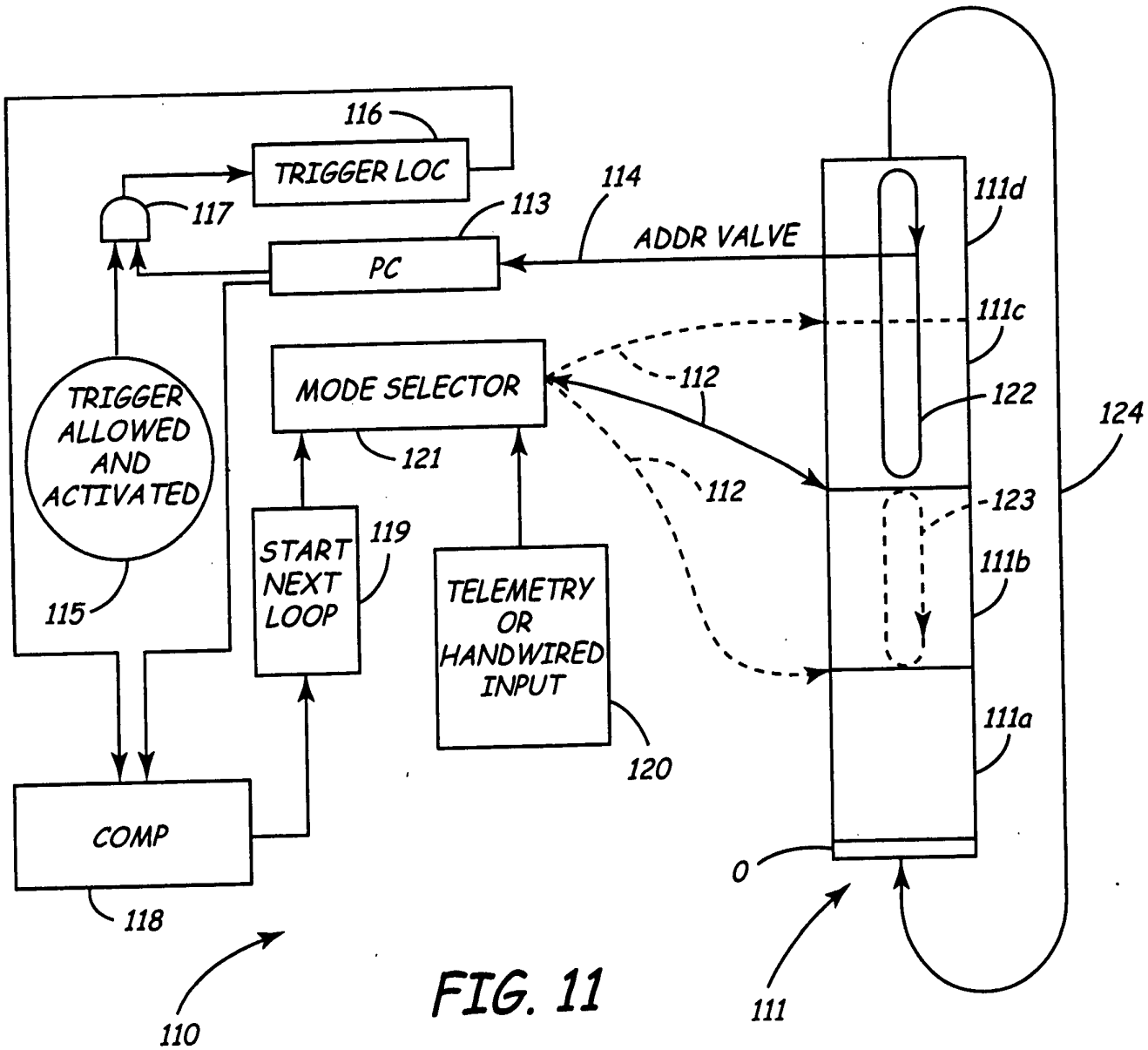

116
TRIGGER LOC
117
113
114
ADDR VALVE
PC
111d
111c
112
MODE SELECTOR
122
124
TRIGGER ALLOWED AND ACTIVATED
121
112
123
START NEXT LOOP
119
111b
TELEMETRY OR HANDWIRED INPUT
115
111a
120
COMP
0
118
110
111

FIG. 11

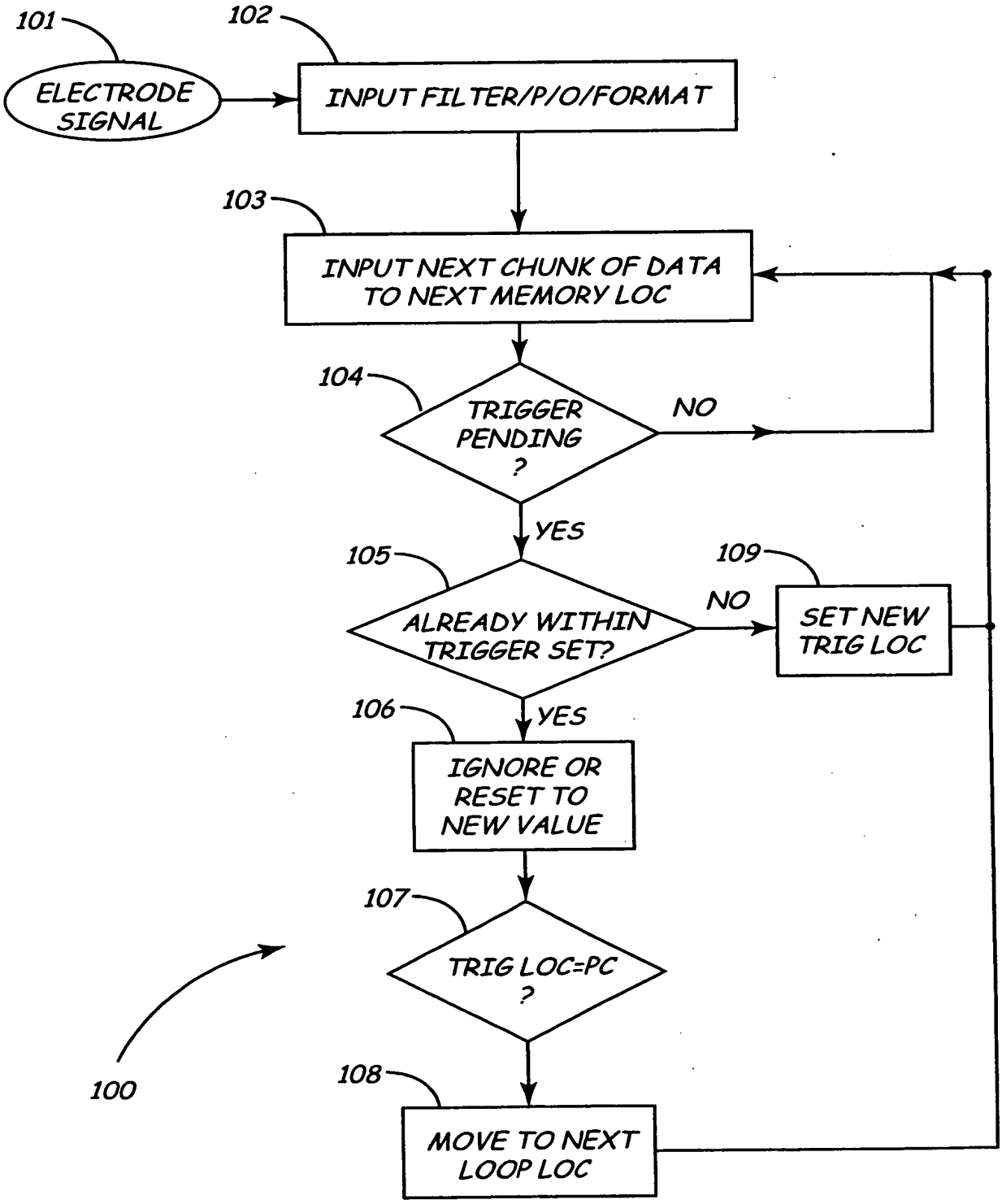


FIG. 12

Docket: 1005/5621

EDWARDS-10010

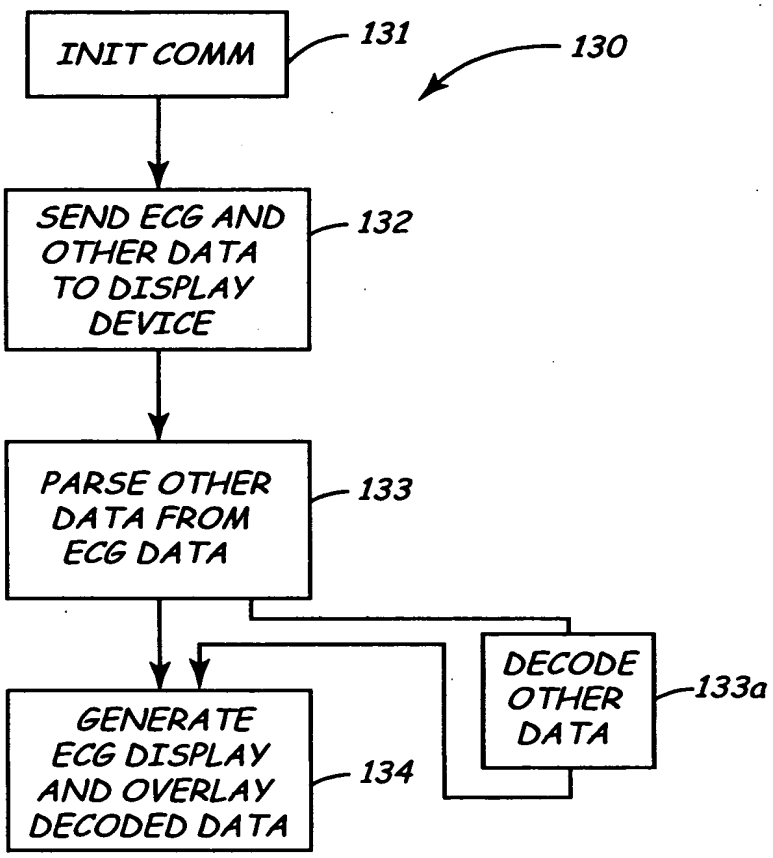


FIG. 13